ABSTRACT OF THE DISCLOSURE

After forming a resist film of a chemically amplified resist material, pattern exposure is carried out by selectively irradiating the resist film with exposing light while supplying, onto the resist film, a solution of perfluoropolyether that includes water and is circulated and temporarily stored in a solution storage. After the pattern exposure, the resist film is subjected to post-exposure bake and then is developed with an alkaline developer. Thus, a resist pattern made of an unexposed portion of the resist film can be formed in a good shape.

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